High-current water-cooled, furnace & shunt cables

AC Bare-Cu Braid Shunt

AC Bare Copper Flat Braided Flexible Shunt & Busbar Strap

Uninsulated flat woven bare copper braided flexible expansion shunt

DIN 46444 | 1000 V · +150 °C | Bare Cu Shunt

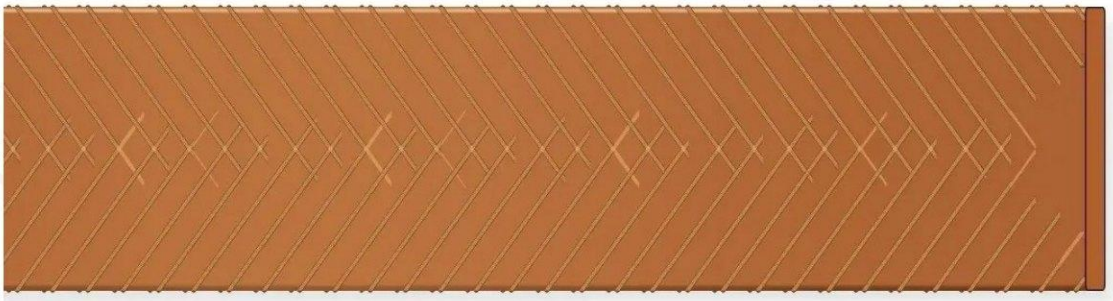


Application

AC Bare Cu Braid Shunt weaves ultra-fine 0.15–0.20 mm Cu-ETP bare copper wires into a flat, uninsulated tubular/flat braid for switchgear expansion joints, breaker links, transformer shunts, and vibration-decoupled earth straps.

Typical uses: Power transformers, switchgear & busduct joints, Resistance welding guns & heavy fabrication shops, BESS battery racks, EV test benches & rectifiers, Steel mills, foundries & high-current power bays

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 6 extra-flexible bare annealed copper · IEC 60228 Class 6
2	**Uninsulated outer weave / lay**	Uninsulated bare electrolytic copper flat braided surface · DIN 46444

Technical data

Typical values

Rated voltage	1000 V	**Test voltage**	3 kV AC
Conductor	Bare Cu · Cl.6	**Core / dielectric**	Uninsulated flat-rolled woven
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-60 °C to +150 °C
Temp. range (flexing)	-60 °C to +150 °C	**Peak / short-circuit**	+160 °C (5 s)
Min. bending radius	5 × OD	**Primary performance**	Flat Woven Cu-ETP Braid
Environment / duty	Vibration & Expansion Proof	**Mechanical / special**	High Surface Cooling
Outer finish	Uninsulated bare electrolytic copper flat		

Sizes

9 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

	Cross-section (W × H mm)	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 5×D mm
☐	1×10 mm² (12×1.5 mm)	1.5	1.910	91	111	7.5
☐	1×16 mm² (16×1.8 mm)	1.8	1.210	146	174	9.0
☐	1×25 mm² (22×2.0 mm)	2.0	0.780	228	268	10.0
☐	1×35 mm² (25×2.5 mm)	2.5	0.554	318	372	12.0
☐	1×50 mm² (30×3.0 mm)	3.0	0.386	455	529	15.0
☐	1×70 mm² (35×3.5 mm)	3.5	0.272	637	739	18.0
☐	1×95 mm² (40×4.2 mm)	4.2	0.206	864	1,000	21.0
☐	1×120 mm² (45×4.8 mm)	4.8	0.161	1,092	1,262	24.0
☐	1×185 mm² (55×6.0 mm)	6.0	0.106	1,684	1,943	30.0

- Conductor DC resistance R20 at 20 °C per IEC 60228 Class 6.
- For flat braided shunts and foils, Outer Ø indicates nominal thickness in the bending plane.

Standards and approvals

- DIN 46444
- EN 13602 Cu-ETP
- IEC 60228 (ref.)
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/ac-bare-copper-flat-braided-flexible-shunt-strap

Typical values for this cable type, based on DIN 46444 · EN 13602 Cu-ETP · IEC 60228 (ref.). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.